

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Patentee:** **Shen et al.**

**Assignee:** **Atwood Mobile Products, Inc.**

**U.S. Patent No.:** **5,650,054**      **Date Issued:** **July 22, 1997**

**Application No.:** **522,946**      **Date Filed:** **September 1, 1995**

**Title:** **LOW-COST ROOM TEMPERATURE CARBON MONOXIDE AND  
TOXIC GAS SENSOR WITH HUMIDITY COMPENSATION  
BASED ON PROTONIC CONDUCTIVE MEMBRANES**

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Mail Stop Reissue  
Commissioner for Patents  
P.O. Box. 1450  
Alexandria, VA 22313-1450

**REISSUE APPLICATION: CONSENT OF ASSIGNEE;  
STATEMENT OF NON-ASSIGNMENT**

Dear Sir:

This paper is being filed as part of the application for reissue patent based on the original patent captioned above.

Filed herewith this paper is a Certificate under 37 C.F.R. § 3.73(b).

The assignee owning an undivided interest in said original patent is Atwood Mobile Products, Inc. As shown in the documents attached to the Certificate under 3.73(b), Atwood Industries, Inc. made a capital contribution of all its assets to Atwood RV Products, Inc. Atwood RV Products, Inc. merged with two other companies and subsequently changed its name to Atwood Mobile Products, Inc. Dura Automotive Systems, Inc. is authorized to act on behalf of the assignee. The assignee hereby consents to the accompanying application for reissue.

Dated: 7 July 2003

  
\_\_\_\_\_  
**David Bovee**  
Vice President  
Dura Automotive Systems, Inc.

*Reissue Application: Consent of Assignee*  
*Reissue of U.S. Patent No. 5,650,054*  
*Page 1 of 1*

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Alexandria, VA 22313-1450

**REISSUE APPLICATION DECLARATION BY THE ASSIGNEE**

Dear Sir:

I, David Bovee, hereby declare that:

1. Dura Automotive Systems, Inc. is authorized to act on behalf of Atwood Mobile Products, Inc. Atwood Industries, Inc. made a capital contribution of all its assets to Atwood RV Products, Inc. Atwood RV Products, Inc. merged with two other companies and subsequently changed its name to Atwood Mobile Products, Inc. I am authorized to act on behalf of Dura Automotive Systems and the title of my position with Dura Automotive Systems, Inc. is Vice President.

2. This declaration is being filed to complete the requirements for filing a reissue application for the above-referenced patent. I understand that the assignee of entire interest is authorized to make this declaration for reissue application under 37 C.F.R. § 1.172(a) because the reissue application is not seeking to enlarge the scope of the claims.

3. I believe the inventors to be the original and first inventors of the subject matter that is described and claimed in the above-referenced patent, for which a reissue patent is sought on the invention referenced above.

4. A copy of the specification, figures, abstract and claims of U.S. Patent No. 5,650,054 is attached hereto.

5. I have reviewed and understand the contents of the specification, figures, abstract and claims of the above-referenced patent and the claims presented in the preliminary amendment filed with this declaration.

6. A chart showing the differences in claim language between the original patent claims and claims 66-75 presented in the reissue application is attached to this declaration. Because presented reissue claims 1-65 are exactly the same as original patent claims 1-65, respectively, these claims have been omitted from the chart.

7. I acknowledge my duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

8. I verily believe the original patent to be wholly or partly inoperative or invalid by reason of the patentee claiming less than he had the right to claim in the patent.

In particular, patentee failed to claim a two-electrode electrochemical gas sensor for quantitative measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material

and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode and the counter electrode being the only two electrodes in contact with the first protonic conductive electrolyte membrane and the sensing electrode reacting with the gas to produce a change in electrical characteristic between the sensing electrode and the counter electrode; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic. Such error arose without any deceptive intention on the part of the patentee.

Patentee also failed to claim an electrochemical gas sensor for quantitative measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode reacting with the gas to produce a change in electrical characteristic between the sensing electrode and the counter electrode in the absence of an applied voltage to the sensing electrode; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second

electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic. Such error arose without any deceptive intent on the part of the patentee.

Patentee also failed to claim a two-electrode electrochemical gas sensor for quantitative measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode and the counter electrode being the only two electrodes in contact with the first protonic conductive electrolyte membrane, and the sensing electrode reacting with the gas to produce a change in electrical characteristic between the sensing electrode and the counter electrode in the absence of an applied voltage to the sensing electrode; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic. Such error arose without any deceptive intent on the part of the patentee.

Patentee also failed to claim an electrochemical gas sensor for measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode and the counter electrode being on opposite sides of the first protonic conductive electrolyte membrane; means for electrical

measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic. Such error arose without deceptive intent on the part of the patentee.

Patentee also failed to claim an electrochemical gas sensor for measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode and the counter electrode being on opposite sides of the first protonic conductive electrolyte membrane and the sensing electrode and the counter electrode being the only two electrodes in contact with the first protonic conductive electrolyte membrane; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic. Such error arose without deceptive intent on the part of the patentee.

Patentee also failed to claim an electrochemical gas sensor for measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an

electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode and the counter electrode being on opposite sides of the first protonic conductive electrolyte membrane, the sensing electrode reacting with the gas to produce a change in electrical characteristic between the sensing electrode and the counter electrode in the absence of an applied voltage to the sensing electrode; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic. Such error arose without deceptive intent on the part of the patentee.

Patentee also failed to claim an electrochemical gas sensor for measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode and the counter electrode being on opposite sides of the first protonic conductive electrolyte membrane, the sensing electrode and the counter electrode being the only two electrodes in contact with the first protonic conductive electrolyte membrane, and the sensing electrode reacting with the gas to produce a change in electrical characteristic between the sensing electrode and the counter electrode in the absence of an applied voltage to the sensing electrode; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of

said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic. Such error arose without deceptive intent on the part of the patentee.

Patentee also failed to claim a non-biased electrochemical gas sensor for measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic in the absence of any biasing voltage. Such error arose without deceptive intent on the part of the patentee.

Patentee also failed to claim a non-biased electrochemical gas sensor for measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes, the sensing electrode and the counter electrode being the only two electrodes in contact with the first protonic conductive electrolyte membrane; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of

said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic in the absence of any biasing voltage. Such error arose without deceptive intent on the part of the patentee.

Patentee also failed to claim a non-biased electrochemical gas sensor for measurement of a gas in an ambient atmosphere comprising: a sensing electrode permeable to water vapor and comprised of an electrical conducting material and having a surface exposed to the ambient atmosphere; a counter electrode permeable to water vapor and comprised of an electrical conducting material, the sensing electrode reacting with the gas to produce a change in electrical characteristic between the sensing electrode and the counter electrode in the absence of an applied voltage to the sensing electrode; a first protonic conductive electrolyte membrane permeable to water vapor and situated between and in contact with the sensing and counter electrodes; means for electrical measurement electrically connected to said sensing and counter electrodes; means, containing a volume of water vapor, for exposing a surface of said counter electrode to said water vapor, wherein the electrical conducting material of at least one of said sensing and counter electrodes is a proton-electron mixed conductive material having 10-50 wt % of a proton conductor material and 50-90 wt % of a first and a second electrical conductor material; whereby, in a positive ambient atmosphere concentration of said gas, said electrical measurement means detects changes in said electrical characteristic in the absence of any biasing voltage. Such error arose without deceptive intent on the part of the patentee.

9. All errors corrected in the reissue application arose without deceptive intention on the part of the Applicant.

10. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

7 July 2003

Dated



David Bovee

Vice President, Dura Automotive Systems, Inc.

ATWOOD INDUSTRIES, INC.

**WRITTEN CONSENT  
IN LIEU OF A SPECIAL MEETING  
OF THE BOARD OF DIRECTORS**

The undersigned, being all the directors of Atwood Industries, Inc., an Illinois corporation (the "Corporation"), pursuant to Section 8.45 of the Illinois Business Corporation Act, hereby consent to the adoption of the following resolutions:

**Authorization of Capital Contribution to Atwood RV Products, Inc.**

WHEREAS, the mobile products business of the Corporation and its affiliates is being reorganized to transfer all related assets into a newly formed corporation called "Atwood RV Products, Inc.", which will be wholly owned by the Corporation;

WHEREAS, the Corporation has received from its parent company, Anderson Industries, Inc., a capital contribution in the form of all real property, buildings, machinery and equipment and inventory located at the Belvedere, Indiana and LaGrange, Indiana facilities;

WHEREAS, the Corporation wishes to transfer such mobile products assets and operations, together with all real property, buildings, machinery and equipment, and equipment located at the Rockford, Illinois, Greenbrier, Tennessee, and Elkhart, Indiana facilities, to its wholly-owned subsidiary, Atwood RV Products, Inc., as a capital contribution;

NOW THEREFORE, BE IT RESOLVED, that the Corporation hereby authorizes a capital contribution to be made to its wholly owned subsidiary, Atwood RV Products, Inc., such capital contribution to be made in the form of all real property, buildings, machinery and equipment and inventory located at the Belvedere, Indiana, LaGrange, Indiana, Rockford, Illinois, Greenbrier, Tennessee and Elkhart, Indiana facilities.

FURTHER RESOLVED, that the President, any Vice President, the Secretary, or any Assistant Secretary (the "Proper Officers") are hereby authorized and directed to take all such further actions and execute and deliver such further documents and instruments as may be necessary or appropriate in order to effectuate the foregoing capital contribution.

IN WITNESS WHEREOF, the undersigned have executed this Consent as  
of the date set forth below.



David R. Boves



Stephen E.K. Graham

Dated: December 16, 1999

BLOOMFIELD 14707-A 214809

Form BCA-11.25

(Rev. Jan. 1999)

ARTICLES OF MERGER  
CONSOLIDATION OR EXCHANGE

File # 6080-419-2

Jesse White  
Secretary of State  
Department of Business Services  
Springfield, IL 62756  
Telephone (217) 782-6961  
<http://www.sos.state.il.us>

**DO NOT SEND CASH!**  
Remit payment in check or money  
order, payable to "Secretary of State."  
Filing Fee is \$100, but if merger or  
consolidation involves more than 2  
corporations, \$50 for each additional  
corporation.

FILED

DEC 23 1999

JESSE WHITE  
SECRETARY OF STATE

**SUBMIT IN DUPLICATE**

This space for use by  
Secretary of State

Date 12/23/99  
Filing Fee \$ 150.00

Approved:

1. Names of the corporations proposing to merge, consolidate, and the state or country of their incorporation: exchange

Name of Corporation	State or Country of Incorporation	Corporation File Number
Atwood RV Products, Inc.	Illinois	6080-419-2
Thompson I.G. Corp.	Michigan	NQ
Hydro Flame Corporation	Utah	NQ

2. The laws of the state or country under which each corporation is incorporated permits such merger, consolidation or exchange.

3. (a) Name of the surviving corporation: Atwood RV Products, Inc.  
(b) It shall be governed by the laws of: Illinois

If not sufficient space to cover this point, add one or more sheets of this size.

4. Plan of consolidation is as follows: See Exhibit A attached.  
exchange

EXPEDITED

DEC 23 1999

SECRETARY OF STATE

5. Plan of ~~consolidation~~ merger was approved, as to each corporation not organized in Illinois, in compliance with the laws of the ~~exchange~~ state under which it is organized, and (b) as to each Illinois corporation, as follows:

(The following items are not applicable to mergers under §11.30 — 90% owned subsidiary provisions. See Article 7.)

(Only "X" one box for each Illinois corporation)

By the shareholders, a resolution of the board of directors having been duly adopted and submitted to a vote at a meeting of shareholders. Not less than the minimum number of votes required by statute and by the articles of incorporation voted in favor of the action taken.

(§ 11.20)

By written consent of the shareholders having not less than the minimum number of votes required by statute and by the articles of incorporation. Shareholders who have not consented in writing have been given notice in accordance with § 7.10 (§ 11.220)

By written consent of ALL the shareholders entitled to vote on the action, in accordance with § 7.10 & § 11.20

Name of Corporation

<u>Atwood RV Products, Inc.</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. (Not applicable if surviving, new or acquiring corporation is an Illinois corporation)

It is agreed that, upon and after the issuance of a certificate of merger, consolidation or exchange by the Secretary of State of the State of Illinois:

- a. The surviving, new or acquiring corporation may be served with process in the State of Illinois in any proceeding for the enforcement of any obligation of any corporation organized under the laws of the State of Illinois which is a party to the merger, consolidation or exchange and in any proceeding for the enforcement of the rights of a dissenting shareholder of any such corporation organized under the laws of the State of Illinois against the surviving, new or acquiring corporation.
- b. The Secretary of State of the State of Illinois shall be and hereby is irrevocably appointed as the agent of the surviving, new or acquiring corporation to accept service of process in any such proceedings, and
- c. The surviving, new, or acquiring corporation will promptly pay to the dissenting shareholders of any corporation organized under the laws of the State of Illinois which is a party to the merger, consolidation or exchange the amount, if any, to which they shall be entitled under the provisions of "The Business Corporation Act of 1983" of the State of Illinois with respect to the rights of dissenting shareholders.



00740958

6225/0011 37 001 Page 1 of 4  
2000-09-22 11:01:10  
Cook County Recorder 27.50

Form BCA-10.30

(Rev. Jan. 1999)

## ARTICLES OF AMENDMENT

File #



00740958

Jessa White  
Secretary of State  
Department of Business Services  
Springfield, IL 62756  
Telephone (217) 782-1832

Remit payment in check or money  
order, payable to "Secretary of State."  
The filing fee for restated articles of  
amendment - \$100.00  
<http://www.sos.state.il.us>

FILED

AUG 25 2000

JESSE WHITE  
SECRETARY OF STATE

SUBMIT

This space for use by  
Secretary of State

Date 8-25-00

Franchise Tax \$  
Filing Fee\* \$25.00  
Penalty \$Approved: *✓*

1. CORPORATE NAME: Atwood RV Products, Inc.

(Note 1)

## 2. MANNER OF ADOPTION OF AMENDMENT:

The following amendment of the Articles of Incorporation was adopted on August 15  
2000 in the manner indicated below. ("X" one box only)

- By a majority of the incorporators, provided no directors were named in the articles of incorporation and no directors have been elected; (Note 2)
- By a majority of the board of directors, in accordance with Section 10.10, the corporation having issued no shares as of the time of adoption of this amendment; (Note 2)
- By a majority of the board of directors, in accordance with Section 10.15, shares having been issued but shareholder action not being required for the adoption of the amendment; (Note 3)
- By the shareholders, in accordance with Section 10.20, a resolution of the board of directors having been duly adopted and submitted to the shareholders. At a meeting of shareholders, not less than the minimum number of votes required by statute and by the articles of incorporation were voted in favor of the amendment; (Note 4)
- By the shareholders, in accordance with Sections 10.20 and 7.10, a resolution of the board of directors having been duly adopted and submitted to the shareholders. A consent in writing has been signed by shareholders having not less than the minimum number of votes required by statute and by the articles of incorporation. Shareholders who have not consented in writing have been given notice in accordance with Section 7.10; (Notes 4 & 5)
- By the shareholders, in accordance with Sections 10.20 and 7.10, a resolution of the board of directors having been duly adopted and submitted to the shareholders. A consent in writing has been signed by all the shareholders entitled to vote on this amendment. (Note 5)

## 3. TEXT OF AMENDMENT:

- a. When amendment effects a name change, insert the new corporate name below. Use Page 2 for all other amendments.

Article I: The name of the corporation is:

Atwood Mobile Products, Inc.

(NEW NAME)

All changes other than name, include on page 2

*(over)*

Text of Amendment

- b. *(If amendment affects the corporate purpose, the amended purpose is required to be set forth in its entirety. If there is not sufficient space to do so, add one or more sheets of this size.)*

4. The manner, if not set forth in Article 3b, in which any exchange, reclassification or cancellation of issued shares, or a reduction of the number of authorized shares of any class below the number of issued shares of that class, provided for or effected by this amendment, is as follows: (If not applicable, insert "No change")

No change

5. (a) The manner, if not set forth in Article 3b, in which said amendment effects a change in the amount of paid-in capital (Paid-in capital replaces the terms Stated Capital and Paid-in Surplus and is equal to the total of these accounts) is as follows: (If not applicable, insert "No change")

No change

(b) The amount of paid-in capital (Paid-in Capital replaces the terms Stated Capital and Paid-in Surplus and is equal to the total of these accounts) as changed by this amendment is as follows: (If not applicable, insert "No change")

No change

	Before Amendment	After Amendment
Paid-in Capital	\$ _____	\$ _____

(Complete either Item 6 or 7 below. All signatures must be in BLACK INK.)

6. The undersigned corporation has caused this statement to be signed by its duly authorized officers, each of whom affirms, under penalties of perjury, that the facts stated herein are true.

Dated August 16, 2000  
 (Month & Day) (Year)  
 Attested by J. Bryan Williams  
 (Signature of Secretary or Assistant Secretary)  
J. Bryan Williams, Secretary  
 (Type or Print Name and Title)

Atwood RV Products Inc.  
 (Exact Name of Corporation at date of execution)  
 by D. R. Bovee  
 (Signature of President or Vice President)  
David R. Bovee, President  
 (Type or Print Name and Title)

7. If amendment is authorized pursuant to Section 10.10 by the incorporators, the incorporators must sign below, and type or print name and title.

OR

If amendment is authorized by the directors pursuant to Section 10.10 and there are no officers, then a majority of the directors or such directors as may be designated by the board, must sign below, and type or print name and title.

The undersigned affirms, under the penalties of perjury, that the facts stated herein are true.

Dated \_\_\_\_\_  
 (Month & Day) (Year)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## NOTES and INSTRUCTIONS

NOTE 1: State the true exact corporate name as it appears on the records of the office of the Secretary of State, BEFORE any amendments herein reported.

NOTE 2: Incorporators are permitted to adopt amendments ONLY before any shares have been issued and before any directors have been named or elected. (§ 10.10)

NOTE 3: Directors may adopt amendments without shareholder approval in only seven instances, as follows:

- (a) to remove the names and addresses of directors named in the articles of incorporation;
- (b) to remove the name and address of the initial registered agent and registered office, provided a statement pursuant to § 5.10 is also filed;
- (c) to increase, decrease, create or eliminate the par value of the shares of any class, so long as no class or series of shares is adversely affected;
- (d) to split the issued whole shares and unissued authorized shares by multiplying them by a whole number, so long as no class or series is adversely affected thereby;
- (e) to change the corporate name by substituting the word "corporation", "incorporated", "company", "limited", or the abbreviation "corp.", "inc.", "co.", or "ltd." for a similar word or abbreviation in the name, or by adding a geographical attribution to the name;
- (f) to reduce the authorized shares of any class pursuant to a cancellation statement filed in accordance with § 9.05;
- (g) to restate the articles of incorporation as currently amended. (§ 10.15)

NOTE 4: All amendments not adopted under § 10.10 or § 10.15 require (1) that the board of directors adopt a resolution setting forth the proposed amendment and (2) that the shareholders approve the amendment.

Shareholder approval may be (1) by vote at a shareholders' meeting (either annual or special) or (2) by consent, in writing, without a meeting.

To be adopted, the amendment must receive the affirmative vote or consent of the holders of at least 2/3 of the outstanding shares entitled to vote on the amendment (but if class voting applies, then also at least a 2/3 vote within each class is required).

The articles of incorporation may supersede the 2/3 vote requirement by specifying any smaller or larger vote requirement not less than a majority of the outstanding shares entitled to vote and not less than a majority within each class when class voting applies. (§ 10.20)

NOTE 5: When shareholder approval is by consent, all shareholders must be given notice of the proposed amendment at least 5 days before the consent is signed. If the amendment is adopted, shareholders who have not signed the consent must be promptly notified of the passage of the amendment (§§ 7.10 & 10.20)